1. Do the below programs in anonymous function & IIFE

a.Print odd numbers in an array

```
let num = [2, 10, 5, 9, 11, 15, 20]
var val = function(){
    for(i=0; i<num.length; i++){
    if(num[i]%2 !=0) {
        console.log(num[i])
    }
}

val()

//Print odd numbers in an array IIFE function
(function(){
    let num = [2, 10, 5, 9, 11, 15, 20]
for(i=0; i<num.length; i++){
    if(num[i]%2 !=0) {
        console.log(num[i])
    }
}
})()</pre>
```

b.Convert all the strings to title caps in a string array

C.Sum of all numbers in an array

```
let marks = [70,40,60,90,45]
let sum1 = function(){
   let sum = 0
   function printMarks(marks){
      sum = sum + marks }
   marks.forEach(printMarks)
   console.log(sum);
}
sum1()
//Sum of all numbers in an array IIFE function
(function(){
  let marks = [70,40,60,90,45]
   let sum = 0
   function printMarks(marks){
      sum = sum + marks }
   marks.forEach(printMarks)
   console.log(sum);
})()
D.Return all the prime numbers in an array
const numbers = [1, 5, 8, 10, 11, 27, 31, 51];
const prime = function(){
const isPrime = num => {
 for (let i = 2; i < num; i++) {
  if (num % i === 0) return false;
 return num !== 1;
};
const primeNumbers = numbers.filter(isPrime);
console.log(primeNumbers);
prime()
//Return all the prime numbers in an array IIFE function
(function(){
const numbers = [1, 5, 8, 10, 11, 27, 31, 51];
const isPrime = num => {
 for (let i = 2; i < num; i++) {
```

```
if (num % i === 0) return false;
 }
 return num !== 1;
};
const primeNumbers = numbers.filter(isPrime);
console.log(primeNumbers);
})()
E.Return all the palindromes in an array
var words = ["121", "guvi", "ITI"]
var isPalindromes = function(){
var palindromes = words => words.filter((word) =>
          word.split("").reverse().join("") === word);
console.log(palindromes(words));
isPalindromes()
//Return all the palindromes in an array IIFE function
(function(){
var words = ["121", "guvi", "ITI"]
var palindromes = words => words.filter((word) =>
          word.split("").reverse().join("") === word);
console.log(palindromes(words));
})()
              F.Return median of two sorted arrays of same size
G.Remove duplicates from an array
let words = [1,2,"ajith",1,"guvi",2,5,10,5,1]
let unique = function(){
let unique1 = [...new Set(words)]
```

```
console.log(unique1)
}
unique()

//Remove duplicates from an array IIFE function
(function(){
let words = [1,2,"ajith",1,"guvi",2,5,10,5,1]
let unique1 = [...new Set(words)]
console.log(unique1)
})()
```

H.Rotate an array by k times

2.Do the below programs in arrow functions

a. Print odd numbers in an array

```
return str
      .split(' ')
      .map((word) => word[0].toUpperCase() +
word.slice(1).toLowerCase())
      .join(' ');
console.log(titleCase("I'm a little tea pot"));
C.Sum of all numbers in an array
      [1, 2, 3, 4].reduce((a, b) \Rightarrow a + b, 0)
       arr.reduce(callback( accumulator, currentValue[, index[, array]] )[,
      initialValue])
D.Return all the prime numbers in an array
const newArray = [1, 3, 2, 5, 10];
const isPrime = num => {
 for (let i = 2; i < num; i++) {
  if (num % i === 0) return false;
 return num !== 1;
};
E.Return all the palindromes in an array
const myPrimeArray = newArray.filter(element => isPrime(element));
console.log(myPrimeArray);
const getAllPalindromes = function (words) {
return words.filter(function (word) {
  return word.split("").reverse().join("") === word;
});
```

```
};
console.log(getAllPalindromes(["hello", "noon"]));
```